

Docket No. 217567US23DIV

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Hugh J. ABERCROMBIE

SERIAL NO: NEW APPLICATION

FILED: HEREWITH

FOR: RECOVERY OF NATURAL NANOCLOUDS AND THE NANOCLOUDS ISOLATED THEREBY

JC879 U.S. PTO  
10/021063  
12/19/01

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

ASSISTANT COMMISSIONER FOR PATENTS  
WASHINGTON, D.C. 20231

SIR:

Applicant wishes to disclose the following information.

REFERENCES

- ☒ The applicant wishes to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, and were cited and made of record in the parent application, U.S. Serial No. 09/575,661, filed June 6, 2000.
- ☐ A check is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- ☐ Attached is a list of applicant's pending application(s) or issued patent(s) which may be related to the present application. A copy of the patent(s), together with a copy of the claims and drawings of the pending application(s) is attached along with PTO 1449.
- ☐ A check is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION


- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

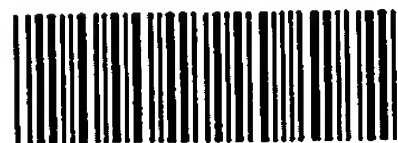
- ☒ Please charge any additional fees for the papers being filed herewith and for which no check is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,  
MAIER & NEUSTADT, P.C.

  
J. Derek Mason, Ph.D.

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22850

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(OSMMN 10/01)

Form PTO 1449  
(Modified)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY DOCKET NO.  
217567US23DIVSERIAL NO.  
NEW APPLICATION

## LIST OF REFERENCES CITED BY APPLICANT

APPLICANT

Hugh J. ABERCROMBIE

FILING DATE

HEREWITH

GROUP

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA	3,150,960	09/29/64	HUNTER			
	AB	3,238,038	03/01/66	HUNTER			
	AC	3,958,985	05/25/76	ANDERSON			
	AD	3,979,205	09/07/76	WANZENBERG			
	AE	4,259,107	03/31/81	GUAY			
	AF	4,892,631	01/09/90	WHITE			
	AG	5,215,575	06/01/93	BUTLER			
	AH	5,405,430	04/11/95	GROVES, et al.			
	AI	5,785,736	07/28/98	THOMAS, et al.			
	AJ	5,814,370	09/29/98	MARTINO, et al.			
	AK	5,916,534	06/29/99	BUTLER			
	AL	5,928,517	06/27/99	SMITH, et al.			
	AM	5,958,329	09/28/99	BROWN			
	AN	6,131,835	10/17/00	JOHNSON			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES	NO
	AO					
	AP					
	AQ					
	AR					
	AS					
	AT					
	AU					
	AV					

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

	AW	Excerpt from the text of the report outlining the various SEM reports.
✓	AX	SEM report from Cannon Microprobe to LAC Explorations in Vancouver, B.C. dated August 22, 1994.
	AY	SEM report from Cannon Microprobe to LAC Explorations in Vancouver, B.C., dated September 23, 1994.
✓	AZ	SEM report from Amtel to LAC Explorations in Vancouver, B.C. dated September, 1994.

Examiner

Date Considered

\*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

12/19/01  
U.S. PTO  
021063

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	BA	6,131,836	10/17/00	JOHNSON			
	BB						
	BC						
	BD						
	BE						
	BF						
	BG						
	BH						
	BI						
	BJ						
	BK						
	BL						
	BM						
	BN						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO	
	BO					
	BP					
	BQ					
	BR					
	BS					
	BT					
	BU					
	AV					

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

/	BW	S. SUGANO, et al., "Microcluster Physics", including book cover, title page, publication information page, and pp. 44-47, 1998.
/	BX	D. BOWMAN, et al., "Calcium Inhibition of Polyacrylamide Gel Hydration Is Partially Reversible by Potassium", HORTSCIENCE, vol. 26, pp. 1063-1065, 1991.
/	BY	D. BOWMAN, et al., "Fertilizer Salts Reduce Hydration of Polyacrylamide Gels and Affect Physical Properties of Gel-amended Container Media", JOURNAL OF THE AMERICAN SOCIETY FOR HORTICULTURAL SCIENCE, vol. 115, pp. 382-386, 1990.
✓	BZ	L. D'ONOFRIO, et al., "Naturally ferrihydrite nanoparticles studied by Mossbauer spectroscopy, magnetic susceptibility and electron microscope.", School of Physics, Faculty of Sciences, UCV, Venezuela, 1967, translated Abstract only.

Examiner

Date Considered

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Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 217567US23DIV		SERIAL NO. NEW APPLICATION	
LIST OF REFERENCES CITED BY APPLICANT				APPLICANT Hugh J. ABERCROMBIE			
				FILING DATE HEREWITH		GROUP	
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
✓	AAA	SEM report from the Alberta Geological Survey (AGS) from work conducted September 1994.					
✓	AAB	SEM report from Durban Laboratories dated September 1994.					
✓	AAC	Reports on SEM examinations conducted by LAC Minerals, Denver, during 1994.					
✓	AAD	H. ABERCROMBIE, et al., "Geological Setting and origin of Microdisseminated Au-Ag-Cu Minerals, Fort MacKay Region, Northeastern Alberta.", GEOLOGICAL SURVEY AND CANADA BULLETIN 500, 1997.					
✓	AAE	BALLANTYNE, et al., "Alluvial Platinum-Group Minerals and Gold in Alberta: Results from the Orientation Studies Project and Their Significance to Exploration.", GEOLOGICAL SURVEY AND CANADA BULLETIN 500, 1997.					
✓	AAF	FEDIKOW, et al., "Prairie-type micro-disseminated Au mineralization - a new deposit type for Manitoba's Phanerozoic rocks (NTS 636C/14)", MANITOBA ENERGY AND MINES, MINERALS DIVISION, REPORT OF ACTIVITIES, 1996, p. 108-121.					
✓	AAG	G. DE PAOLI, "Sample Descriptions and Report on Petrographic and SEM Examinations of Polished Thin Section and Rock Chip Samples from the Ft. McKay Area, N.E. Alberta.", March 1997.					
✓	AAH	G. DE PAOLI, SEM report of Four rock Samples and Three Fire Assay Beads, March 1999.					
✓	AAI	B. TSANG, "The Origin of the Beaver River Sandstone", MSc thesis, University of Calgary, 1998.					
✓	AAJ	S. RAMNATH, "Prairie-Type mineralization: A Mineralogical and Geochemical Study of Solution Chimneys in the Mafeking Quarry, Manitoba, Canada.", BSc thesis, University of Manitoba, 1999.					
	AAK	H. ABERCROMBIE, "Prairie-Type Sedimentary Au-Ag-Cu", Geological Survey of Canada, Calgary, in New Mineral Deposit Models for the Cordillera, Northwest Mining Association, short course notes, 15-122, 1996.					
✓	AAL	R. FENG, et al., "Disseminated Au-Ag-Cu mineralization in the Western Canadian Sedimentary Basin, Fort MacKay, northeastern Alberta: a new gold deposit type", In Current Research 1994-E, Geological Survey of Canada, p. 121-132.					
✓	AAM	A. P. ALIVISATOS, "Enhanced: Naturally Aligned Nanocrystals", SCIENCE MAGAZINE web site, Biomineralization, pp. 1-7,					
✓	AAN	J. BANFIELD, et al., "Aggregation-Based Crystal Growth and Microstructure Development in Natural Iron Oxyhydroxide Biomineralization Products", SCIENCE, Vol. 289, August 2000, pp. 751-754.					
✓	AAO	M. LABRENZ, et al., "Formation of Sphalerite (ZnS) Deposits in Natural Biofilms of Sulfate-Reducing Bacteria", SCIENCE, Vol. 290, December 2000, pp. 1744-1747.					
✓	AAP	H. ABERCROMBIE, "Prairie-Type Sedimentary Au-Ag-Cu", in New Mineral Deposit Models for the Cordillera, British Columbia Geological Survey, short course notes, pp. J1-J20, 1996.					
✓	AAQ	D. MOSSMAN, et al., "Microbial Processes in Gold Migration and Deposition: Modern Analogues to Ancient Deposits", 1999, Vol. 26, no. 3, pp. 131-140.					
Examiner						Date Considered	
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